

CLAIMS:

1. Device for recording information in blocks having logical addresses on a record carrier, which device comprises
 - recording means (22) for recording marks in a track on the record carrier representing the information, and
- 5 - control means (20) for controlling the recording by locating each block at a physical address in the track, the control means comprising
 - addressing means (31) for translating the logical addresses into the physical addresses and vice versa in dependence of defect management information,
 - defect management means (32) for detecting defects and maintaining the defect
- 10 management information, the defect management information including assignment information indicative of assignment of physical addresses in first parts of the track to at least one user data area, assignment of physical addresses in second parts of the track to defect management areas and assignment of the defect management information to the defect management areas, and the defect management information including remapping information
- 15 indicative for translating a logical address initially mapped to a physical address exhibiting a defect to an alternate physical address in a defect management area,
 - data type detection means (33) for detecting a data type of recorded information, in particular the type being streaming for real-time data like digitally encoded video, or non-streaming for random data like computer data files, and
- 20 - defect management area reassignment means (34) for changing said assignment information in dependence of the data type.

2. Device as claimed in claim 1, wherein the defect management area reassignment means (34) are for changing said assignment information from a distributed layout having the first parts and the second parts of the track alternately arranged to a contiguous layout having a substantially uninterrupted user data area in dependence of the data type being streaming, or vice versa.

3. Device as claimed in claim 2, wherein the defect management area reassignment means (34) are for changing said assignment information for a first physical address range to the distributed layout and for a second physical address range to the contiguous layout, the first physical address range containing information of the non-streaming type and the second physical address range containing information of the streaming type.
4. Device as claimed in claim 1, wherein the defect management area reassignment means (34) are for assigning a defect to a first defect management area for information of the streaming type, or to a second defect management area for information of the non-streaming type.
5. Device as claimed in claim 4, wherein the defect management area reassignment means (34) are for double assigning by remapping a same defect to both the first defect management area and the second defect management area.
6. Device as claimed in claim 5, wherein the defect management area reassignment means (34) are for performing the double assigning as a background process.
- 20 7. Device as claimed in claim 4, wherein the defect management area reassignment means (34) are changing the assigning of physical address to the first defect management area for information of the streaming type, or to the second defect management area for information of the non-streaming type in dependence of information recorded or defects detected on the record carrier.
- 25 8. Device as claimed in claim 1, wherein the defect management area reassignment means (34) are for, in the event that the translation of logical address to physical address of previously recorded blocks is affected by said reassignment, moving the previously recorded blocks to a different physical address that after the reassignment corresponds to the logical address, and/or by adapting file management information by amending the logical addresses of the affected of previously recorded blocks.
- 30 9. Device as claimed in claim 1, wherein the data type detection means (33) are for detecting the data type by monitoring commands for recording or retrieving information,

by retrieving record carrier information indicative of the data type, by detecting a data type from the data structure of the recorded information, or by detecting file system information, or by communicating with a host device.

- 5 10. Method of defect management for recording of information in blocks having logical addresses on a record carrier by
 - locating each block at a physical address in the track,
 - translating the logical addresses into the physical addresses and vice versa in dependence of defect management information,
- 10 - detecting defects and maintaining the defect management information, the defect management information including assignment information indicative of assignment of physical addresses in first parts of the track to at least one user data area, assignment of physical addresses in second parts of the track to defect management areas and assignment of the defect management information to the defect management areas, and the defect
- 15 management information including remapping information indicative for translating a logical address initially mapped to a physical address exhibiting a defect to an alternate physical address in a defect management area,
the method comprising
 - detecting a data type of recorded information, in particular the type being streaming for
- 20 real-time data like digitally encoded video, or non-streaming for random data like computer data files, and
 - changing said assignment information in dependence of the data type.

- 25 11. Computer program product for defect management for recording information, which program is operative to cause a processor to perform the method as claimed in claim 10.